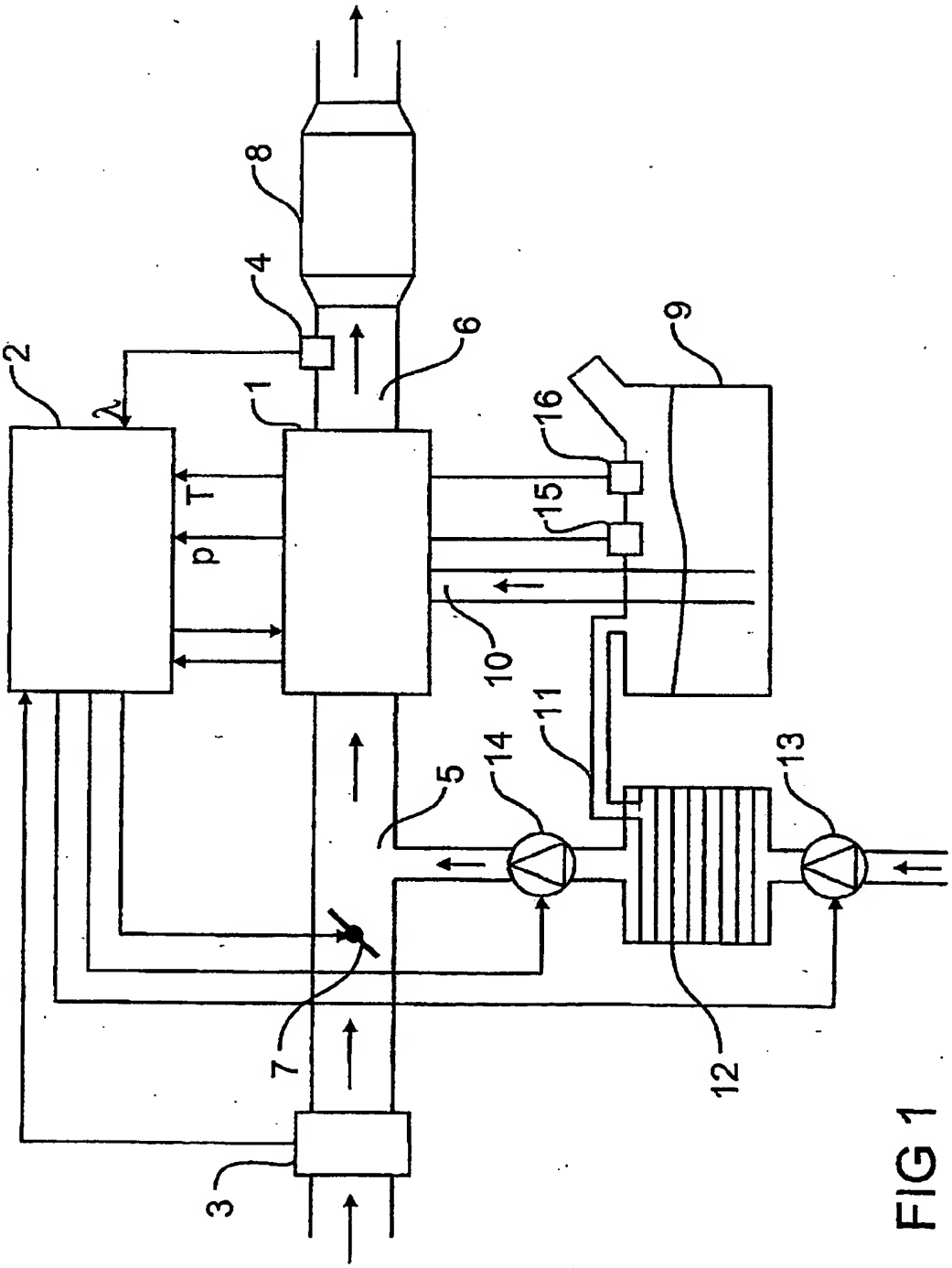

FIG 1

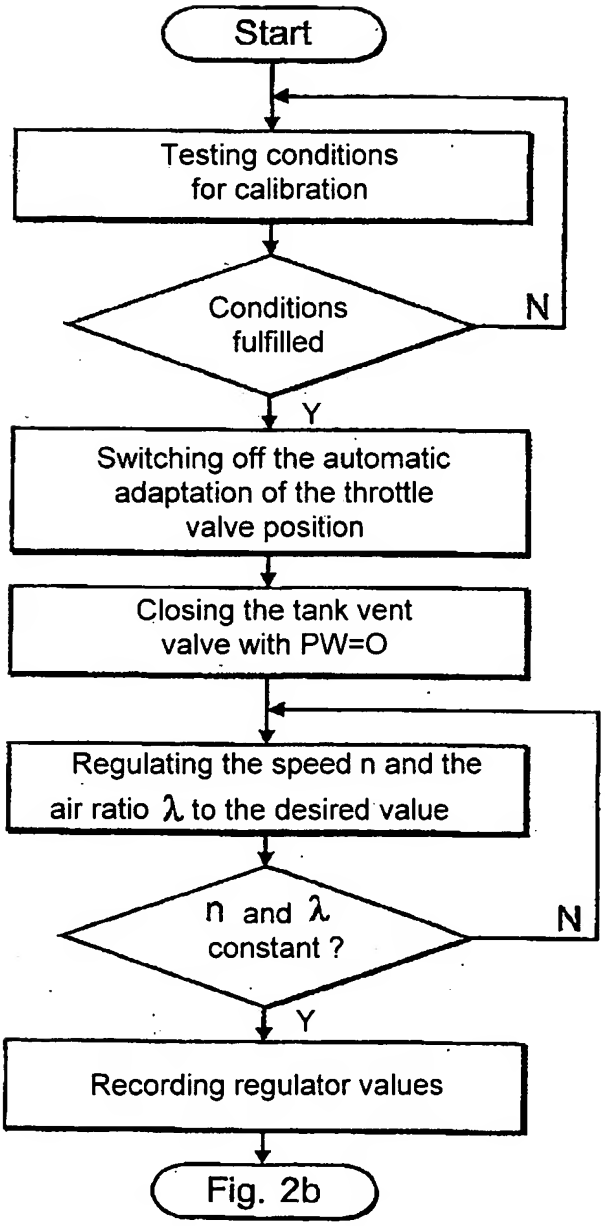
Start
Testing conditions for calibration
Conditions fulfilled
N
Y
Switching off the automatic adaptation of the throttle valve position
Closing the tank vent valve with PW=O
Regulating the speed n and the air ratio λ to the desired value
n and λ constant ?
N
Y
Recording regulator values
Fig. 2b

FIG 2a

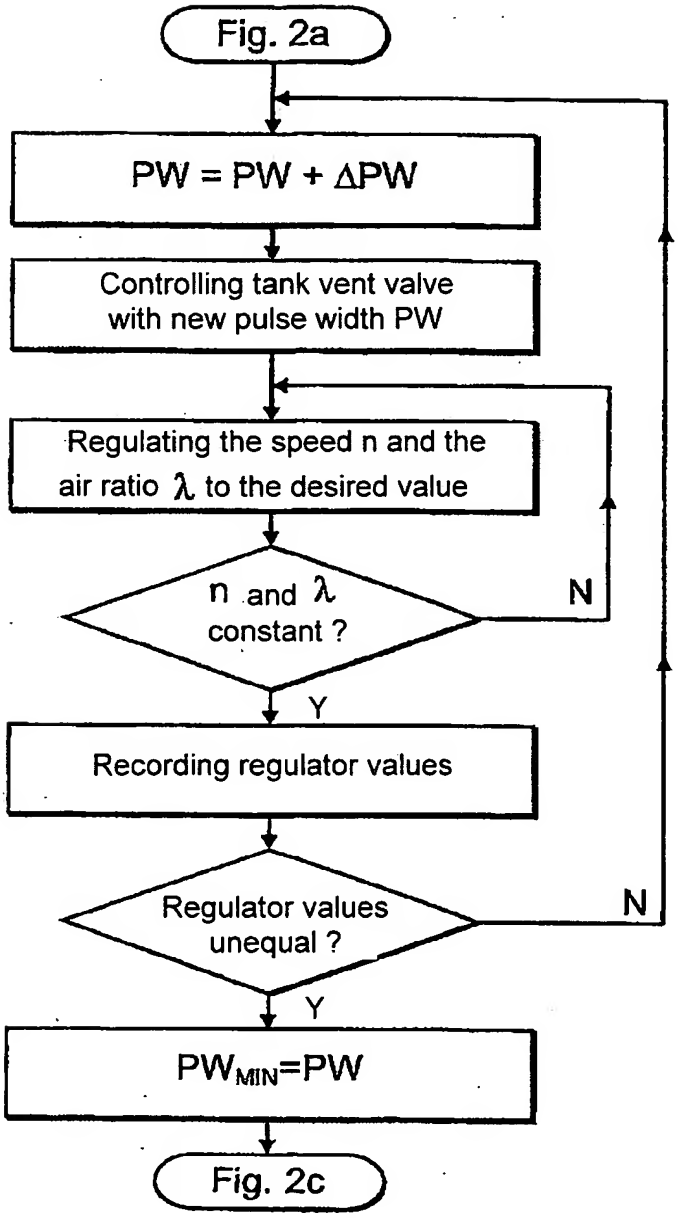
Fig. 2a
PW = PW + ΔPW
Controlling tank vent valve with new pulse width PW
Regulating the speed n and the air ratio λ to the desired value
n and λ constant ?
N
Y
Recording regulator values
Regulator values unequal ?
N
Y
PW_MIN=PW
Fig. 2c

FIG 2b

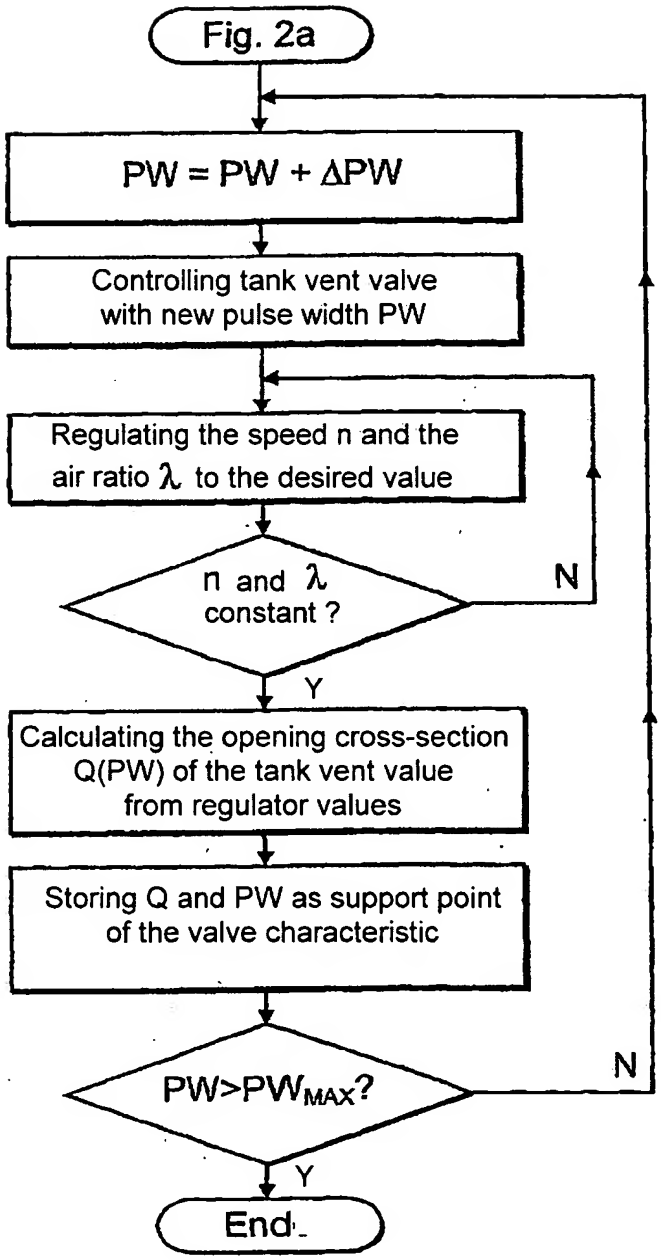
Fig. 2a
PW = PW + ΔPW
Controlling tank vent valve with new pulse width PW
Regulating the speed n and the air ratio λ to the desired value
n and λ constant ?
N
Y
Calculating the opening cross-section Q(PW) of the tank vent value from regulator values
Storing Q and PW as support point of the valve characteristic
PW>PW_MAX?
N
Y
End

FIG 2c

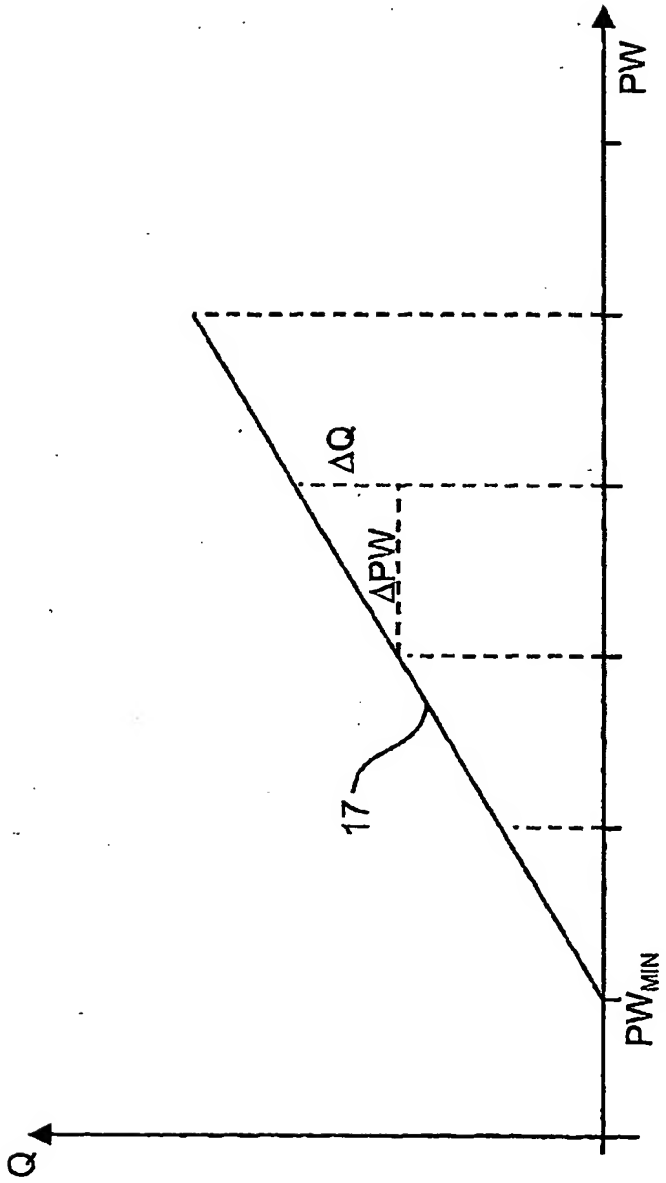

FIG 3